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	CENTRAL INTELLIGENCE AGENCY	REPORT NO.	25X1
	information report	CD NO.	
COUNTRY	USSR (Caucasus)	DATE DISTR. 8 Dec	c. 1950
SUBJECT	Aircraft Plant No. 31 in Tbilisi	NO. OF PAGES 9	
PLACE ACQUIRED	25X1 RETURN TO CIA	NO. OF ENCLS. 40 (LISTED BELOW)	
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l. Location:

- a. The plant was on the SE outskirts of the town of Tbilisi about 7 km from the center of town. The plant was wagon-shaped and extended about 1.2 km from NW to SE. It is bordered on the northwest by the suburban colony of Tbilisi, on the northeast and southeast by the single-track railroad Tbilisi-Yerevan, and on the southeast by the Kura River.
- b. Particularly conspicuous were the two 60-meter radio transmitting towers ("the characteristic sign of Toilisi"). They were braced iron structures about 300 meters to the north of the main entrance on the northwest side of the plant. Other conspicious objects were the open-air transformer station, about 1 km southwest of the premises of the plant, and the 40-meter-high black sheet iron smokestack of the heating installation on the premises of the plant. The premises were entirely

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closed in, the Front by the main entrance and the eastside (half of it) by a concrete wall, 2 meters high; the remainder was surrounded by a wooden fence.

c. There was another exit on the southside of the premises. This road led to the workmens' settlements, the premises. NO 7236/1, and reached as far as the plant airfield.

From the main entrance an asphalt road, about 15 meters wide, followed a northeasterly direction. Greens and workshops were on both sides of this road. From this main road side streets branched off at right angles, interconnected to the main road by parallel streets. Some of the plant buildings were raw brickwork (unplastered). Some were painted a light color while others, ferro-concrete structures, were unplastered. All had flat roofs.

d. The area at the main entrance with the greens and two statues of Stalin and Lenin, the main workshops and office buildings as well as the main road, gave a neat impression both inside and outside. In contrast, the premises of the plant located farther behind were desolate and neglected. As everywhere in USSR, and quite typical of Tbilisi, there was a clean, modern building at the front and behind it semi-finished dirty buildings. No new buildings were under construction during the period of observation.

2. Layout (see annex 1)

The following sections were more or less known in detail:

- a. Pressing shop (see innex 2 and (18) of innex 1). In the pressing shop new foundations were dug in November 1946 for a large hydraulic press, the machine parts for which were not yet available. The workshop was made of pressed stones with grey Mastering.
- (1) Machines: About 20 screw presses (large and small types), hydraulic presses, ranging from 2 to 5 tons, including the new one to be installed; drawing presses, train of rolls, draw benches for making profiles; the dies were manufactured in the melting shop (see 36 of Annex 1).
- b. Block of workshops (13 of annex 1 and innexes 3 and 4).

 In February 1947 dug the found dug the found dations for the annealing and refining plant (13c; and the west wing of (13c)* and, on this occasion, the ground pland the wast was a single-story building with skylights. Two baths, four turntables, and one special car for the refined parts were available.
- (1) in (13a) and (13b), fuselages, airfoils, and empennages care made, and preassabling and final assembly work was done

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by means of an assembly line similar to the old German conveyer system (not as with Heinkel, Messerschmidt etc. in a close conveyer band). There were 25 to 30 fuselages on the belt for fuselage assembly.
(2) In the east wing of (13b) was the painting shop and the paint spraying shop for the finally assembled machines.
c. Shop (17 of Annex 1)
t rectangular ferro-concrete building with a flat concrete roof and watchtower for the fire department.
on the ground floor, locksmith's shop and electric shops.
2nd story: Operations office;
3rd story: Design office, drawing of installations, bracing office, etc.
d. Two large storehouses (20 of .nnex 1).
for the storage of all kinds of raw material. Cheets, engines, instruments and accessories, etc., were also stored there.
e. Long-distance heating plant (27 of .nnex 1)
A forro-concrete structure, 50x30x20 meters, four large boiler plants with automatic stoker. (28 of Annex 1): A sheet iron smokestack, 40 meters high, painted black, on stone base.
f. Felting shop (no foundry)
(36) of annex 1) for scrapping light a etal refuse and manufacture for the pressing shop.
g. Transformer house, a stone building (39 of innex 1).
h. Two large oil or "magut" containers, 8 to 10 meters long, 3 meters in diameter.
1. There were no air raid protection installations.
Labor:
a. Nomes and exact strength of principal employees and workmen were not known estimated labor strength at between 2,500 and3,000 people 25X1
the number or persons leaving the

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3.

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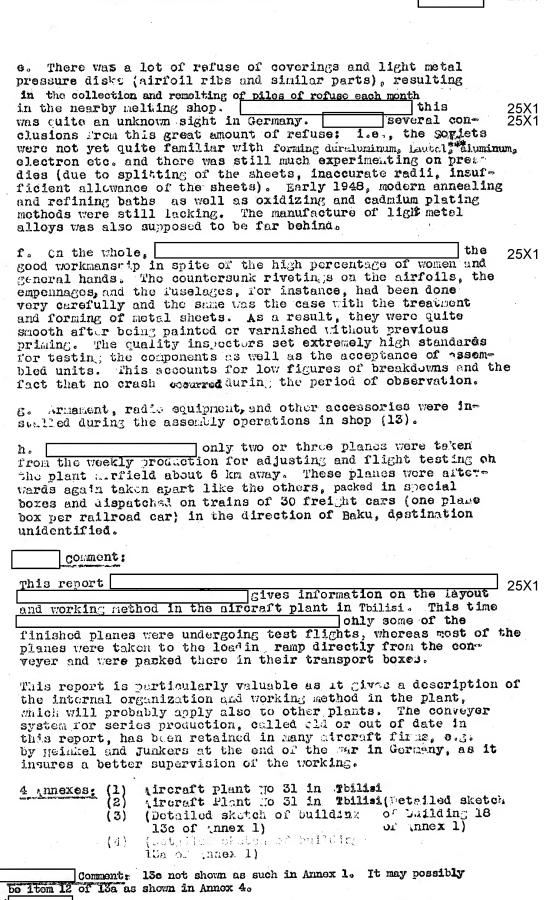
(I a 120 be plant after work. (The PUS were often kept waiting for one hour at the exit of the plant until all working teams hed arrived) 25X1 (2) German direcraft plants, the number of workmen required for a monthly output of from 150 to 200 planes (according to statements). Soviet 25X1

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25X1	b. Fifty percent of the labor force was somen and 1% percent convicts, who were quartered in the relater PW camp on the premises of the plant. Great part of the other workmen had been as a pulsorily hired from armenia, Ukraine and the eastern part of Russia and lad a miserable life. In contrast, skilled workmen and especially specialists (engine fitters and electricians) were well paid (1,000 to 1,500 Rubles).	25X1 25X1
	c. Pus were not employed in aircraft manufacture. The occu- pants of the camp, 150 to 200 in number who formed the per- manent "ircraft plant" team, worked in the saw mill, stone factory, locksmiths shop, garage, store buildings and the long- distance heating plant and were detailed for cleaning, digging, bricklaying and loading and discharging railroad cars.	
4:0	Power supply	
·	a. All installations, except the heating plant, were powered by individual electric motors.	
	b. Power was supplied via an open air transformer which was about 1 km southwest of the plant. Voltage unknown. This transformer plant was fed by a 90,000 V line (concrete masts) running parallel to the pass road of Yerevan and the power station of Tbilisi. The power station of Tbilisi entirely failed regularly in the summer when there was a shortage of water. Damage from gales was also felt by the mains from Tbilisi. On the other hand, the cross-country mains from Yerevan never failed to supply current so that the plant was supplied without interruption even when the entire town of Tbilisi had no current.	
5。	Work in plant and evaluation of same:	
ж + •	a. After April 1948, a jet fighter was produced. ** According to Soviet workmen the monthly output was 150 to 200 planes. Before that date, from early 1947 to March 1948, the same plane was built as a single-seater.	
	b. The work time was 8 hours - from 9 tom, to 6 p.m for	
	both civilians and pis. During the night only certain sections continued with extra priority work caused by alterations or test flying operations.	
	e. Piece parts were manufactured in shops (11) and (12). Ceretain ports of high value such as engines, turbines, toothed wheels, etc, as well as instruments, were delivered by rail and stored in the two storehouses (20).	25X1
25X1	Up to early 1948, only Junkers turbines, arriving in special boxes, were built in.	23/11
25X1	a. only foreign sheet metal was used: German material from VDV (United Light Netal Works, Hannover and Bonn), Vdm (Heddernheimer topper Yorks, Frankfurt), and British and American metal sheets (marked *4lclad*).	
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Comment: Lautal is the trade name

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used as aircraft skin which is manufactured in the Soviet Zone of Germany of Approved For Release 2003/08/11: CIA-RDP23/0457R004700020009-6

of

an aluminum alloy

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Legend to Annex 1:

- 1. Main entrance
- 2. Porter's house
- 3. Garage, passenger cars
- Main road
- 5. Stalin and Lenin Monuments
- 6. Water basin
- 7. Wooden cantonment building, one story
- 8. Stone building, three-story
- 9. Stone building, three-story
- 10 Workshop, one-story
- 11. Workshop buildings, a 3 stories)

 a 4 stories) Manufacture of) piece parts

 b 2 stories with skylight)
- 12. Workshop buildings, al 3 stories
 - ag 4 stories
 - bl. Story with skylight
 End story: management's office etc.
 see sketch
 Brd story: Design office.
- - a, 3 stories

bac 1 story with skylight

- 14. Carbide depot and acetylene production
- 15. Wooden cantonment buildings (offices)
- 16. Wooden building and cantonment buildings (locksmith's shop for repairs and installation)
- 17. Workshop (ferro-concrete building), 4 stories,

locksmith's and electrical shops
lot story:
Pad story:
Contained office, installation building,
tracing office, etc.

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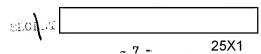
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Square building with flat concrete roof and watchtower (fire lookout by day and by night).

- 18. Pressing shop
- 19s. Workshop, 1 story
- 20. Large stores (storage of all kind of raw material, instruments, engines and accessories)
- 21. Two-story, wooden building with ventilation flaps for storage of plywood
- 22. Two-story stone building (carpenter's shop, making the large special boxes for the shipment of the finished planes on railroad cars)
- 23. Two-story stone building (test room for instruments and gear, and breaking test and other test machines)
- $2l_{i,s}$ Cantonment building (storage of building material)
- 25, Loading ramp
- 26. Loading ramp (disassembly and storage into special boxes of finished planes)
- 27. Long-distance heating plant (ferro-concrete building 50 x 30 meters. 20 meters high, four large boiler sets with automatic stoking)
- 28. Smokestack (of sheet iron, painted black, on lower stone base, about 40 meters high)
- 29. Coal dumps
- 30. Railroad tracks
- 31. Wooden cantonment buildings
- 32% Stone building, 2 stories
- 33. Wooden building (storage of concrete)
- 34. Stone factory (wooden and stone building, two stories)
- 35. Wooden cantonment buildings (storage of paints and unmelted light metal ingots)
- 36. Melting shop (two-story stone building) for scrapping light metal refuse
- 37. Flat, two-story stone building (locksmith's shop)
- 38. Two-story stone building (storage of paints and oils)
- 30. Transform r house (stone building)



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- 40. Forter's house (wooden cantonment building)
- 41. South exit (road to plant-owned airfield)
- 1,2. Sawmill (vertical and horizontal saw framss)
- 43. Circular saw
- 144 Sawmill manager's office
- 45. Wooden shed for storing and drying sawn timber
- 46. Storage of trunks (chiefly from Rumania)
- 17. Two large oil or "magut" containers, diameter 3 meters and 8 to 10 meters long.
- 18. Fipe line for draining tank cars standing on top of the slope
- 149. Fassenger car and truck garage (two-story stone building)
- 50. Automobile repair shop (two-story, stone building)
- 51. Wooden cantonment building (workshop)
- 52. Stone wall (concrete 3 meters high)
- 53, Wooden fence
- 54 Watchtowers (of wood)
- 55. Railroad tracks, property of plant
- 56. Reilroad bridge across the Kura River to Yerevan is an iron structure.
- 57. Kura River.

Legend to Annex 2:

Detailed sketch of building (18) of Annex 1

- 1. Work benches
- 2. Drawing and stretching machine
- 3. Screw presses of various sizes
- 4. Drawing benches
- 5. Stretching machines
- 6. Pressure part and sheet depot



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- 70 Foundation for large hydraulic press
- 8_{a.} Offices
- 9. Annex, two-story.